

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-27 (Canceled).

Claim 28 (New): A method for controlling positioning of a biological element on a zone of a support, in which the biological element is labeled with a tracer that emits a light radiation and the zone of the support on which the biological element is positioned is located in a layer of a material capable of trapping the light radiation, the method comprising:

- a) positioning the biological element on the zone of the support;
- b) measuring intensity of light radiation trapped in the layer; and
- c) determining positioning of the biological element by comparing the intensity thus measured with at least one reference value;

wherein a), b) and c) can be carried out successively or simultaneously.

Claim 29 (New): A method according to Claim 28, in which the biological element is labeled with a fluorescent tracer.

Claim 30 (New): A method according to Claim 29, in which the fluorescent tracer is an organic fluorophore chemically coupled to one or more membrane proteins of the biological element, an antibody labeled with an organic fluorophore, which is directed against a membrane protein of the biological element and which is attached to the biological element by an antigen-antibody reaction, or a fluorescent membrane protein which is expressed by the biological element.

Claim 31 (New): A method according to Claim 28, in which the layer of material capable of trapping the light radiation is made of an organic or mineral glass, of silica, of silicon nitride, of titanium dioxide, of hafnium dioxide, of alumina, of silica loaded with potassium or silver ions, or of a synthetic polymer.

Claim 32 (New): A method according to Claim 28, further comprising, prior to a) or between a) and b), providing the support with means for extracting the light radiation trapped in the layer of material capable of trapping the light radiation.

Claim 33 (New): A method according to Claim 32, further comprising, prior to a) or between a) and b), placing, opposite the layer of material capable of trapping a light radiation, means for collecting the light radiation extracted from the layer.

Claim 34 (New): A method according to Claim 28, in which the positioning of the biological element on the zone of the support comprises sealing of the biological element on the zone.

Claim 35 (New): A method according to Claim 34, in which the zone of the support on which the biological element is sealed includes edges of a through-opening made in the support, and a) comprises creation of a low pressure in the through-opening.

Claim 36 (New): A method according to Claim 35, in which a), b) and c) are carried out simultaneously.

Claim 37 (New): A method according to Claim 28, in which the biological element is a cell.

Claim 38 (New): A device for controlling positioning of at least one biological element on at least one zone of a support, comprising:

a support comprising a layer of a material capable of trapping a light radiation designed to be emitted by the biological element, and means for extracting the light radiation trapped in the layer, the zone of the support being located in the layer; and
means for measuring intensity of light radiation extracted from the layer.

Claim 39 (New): A device according to Claim 38, in which the support is a tube open at both its ends and the zone on which the biological element is positioned is one of the openings of the tube.

Claim 40 (New): A device according to Claim 39, in which the support is a micropipette configured for implementation of a patch-clamp technique.

Claim 41 (New): A device according to Claim 38, in which the support is a planar support and the zone on which the biological element is positioned is an opening of the support.

Claim 42 (New): A device according to Claim 41, in which the opening is a through-opening.

Claim 43 (New): A device according to Claim 42, in which the support is a planar support configured for implementation of a patch-clamp technique.

Claim 44 (New): A device according to Claim 38, in which the layer of material capable of trapping the light radiation is made of an organic or mineral glass, of silica, of

silicon nitride, of titanium dioxide, of hafnium dioxide, of alumina, of silica loaded with potassium or silver ions, or of a synthetic polymer.

Claim 45 (New): A device according to Claim 38, in which the layer of material capable of trapping the light radiation has a thickness of at least 200 nm.

Claim 46 (New): A device according to Claim 38, in which the means for extracting the light radiation includes a raised area or a hollow or a series of raised areas and of hollows made in one of faces of the layer of material capable of trapping the light radiation.

Claim 47 (New): A device according to Claim 38, in which the means for extracting the light radiation includes a component placed on one of faces of the layer capable of trapping the light radiation, and which forms, on the one face, a raised area or a series of raised areas and of hollows.

Claim 48 (New): A device according to Claim 38, in which the means for extracting the light radiation includes a material deposited onto one of faces of the layer capable of trapping the light radiation, at one or more points of the one face.

Claim 49 (New): A device according to Claim 38, in which the means for extracting the light radiation includes an interruption of the layer capable of trapping the light radiation, by a material which is opaque with respect to the light radiation.

Claim 50 (New): A device according to Claim 38, in which the support is a planar support, and the means for extracting the light radiation extends all the way around the zone of the support on which the biological element is positioned.

Claim 51 (New): A device according to Claim 38, further comprising means for collecting the light radiation extracted from the layer capable of trapping the light radiation.

Claim 52 (New): A device according to Claim 38, in which,
the support is a planar support comprising a plurality of zones for the positioning of a plurality of biological elements;

the layer of material capable of trapping the light radiation is divided up into as many parts as there are zones on the support;

each zone of the support is located in one of the parts;

the parts are separated from one another by means for preventing the light radiation from propagating from one part to another part; and

for each part of the layer, the support comprises means for extracting the light radiation trapped in the part, and further comprising means for collecting the light radiation extracted from the part and means for measuring the intensity of the light radiation collected by the collecting means.

Claim 53 (New): A device according to Claim 52, in which the layer capable of trapping the light radiation is supported by a layer of a material which is opaque with respect to the light radiation, and the parts of the layer capable of trapping the light radiation are separated by projections from the layer which is opaque with respect to the light radiation, extending into the thickness of the layer capable of trapping the light radiation.

Claim 54 (New): A method for controlling establishment of a high-resistance seal between at least one biological element and at least one zone of a support by a patch-clamp technique, in which the biological element is labeled with a tracer that emits a light radiation

and the zone of the support on which the biological element is positioned is located in a layer of a material capable of trapping the light radiation, the method comprising:

- a) positioning the biological element on the zone of the support;
- b) measuring intensity of light radiation trapped in the layer; and
- c) determining positioning of the biological element by comparing the intensity

thus measured with at least one reference value;

wherein a), b) and c) can be carried out successively or simultaneously.